

Technical Data Sheet



ALCOM PA6 900/1 GF30 WT1165-10LB

Base Polymer	Polyamide 6
Filler/Additive System	30 % glass fibres
Special Features	highly reflective, opaque, slip agent
Market Segment	Automotive, various
Application Area	lighting, light blocking components, interior decoration / finishing
Typical Applications	light guides, reflectors, handles

Pre-Drying Conditions 80 °C in a dry air (dessiccant) dryer
for 2-12 h
max. moisture content <0,15 %

Processing Injection Moulding melt temperature 270-290 °C
mould temperature 80-100 °C

Storage dry, protected from light

Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	8700 / 4700	MPa	ISO 178
Flexural Strength	185 / 105	MPa	ISO 178
Tensile Modulus	9400 / 4800	MPa	ISO 527
Tensile Strength at Break	122 / 65	MPa	ISO 527
Tensile Elongation at Break	2 / 4	%	ISO 527
Impact Strength (Charpy, 23°C)	39 / 50	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	36 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	5 / 8.5	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	4 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	205 / *	°C	ISO 75-1/-2
DSC (Melt Point)	220 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.1 - 0.3	%	ISO 294-4
Shrinkage (lateral, 24h)	0.6 - 0.8	%	ISO 294-4
Physical Properties			
Density	1420 / -	kg/m ³	ISO 1183
Optical Properties			
Tristimulus Value Y10 of Reflection (d=2,0mm)	84	%	DIN 5033
Tristimulus Value Y10 of Transm., d=0.5mm	0.8	%	ISO 13468